Phosphorus, Sulfur and Silicon and the Related Elements 2015 vol.190 N5-6, pages 772-777

Synthesis of (PIII, PIII)-, (PIII, PV)-, (PIII, PIV)-, (PIV, PV)-, and (PV, PV)-Diphosphorus-Containing Compounds Based on 1,2,3- and 1,2,4-Trihydroxybenzenes

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Abstract

Copyright © 2015 Taylor & Francis Group, LLC. The data on the phosphorylation of 1,2,3 and 1,2,4-trihydroxybenzenes phosphorus trichloride are presented. The reactivity of 4(5)-(dichlorophosphinyloxy)benzo-1,3,2-dioxaphospholes relative to phosphorus pentachloride, sulfuryl chloride, and 3,6-di(tert-butyl)-1,2-benzoquinone was studied. Phosphorylated derivatives of pyrogallol and oxyhydroquinone containing two phosphorus atoms in coordination (PIII, PIII), (PIII, PV), (PIII, PIV), (PIV, PV), and (PV, PV) were prepared.

http://dx.doi.org/10.1080/10426507.2014.995297

Keywords

dioxaphosphole, oxyhydroquinone, phosphorane, phosphorus pentachloride, phosphorus trichloride, Pyrogallol